

AMENDMENTS TO THE CLAIMS

The following is a complete, marked up listing of revised claims with a status identifier in parentheses, underlined text indicating insertions, and strikethrough and/or double-bracketed text indicating deletions.

LISTING OF THE CLAIMS

1. (Currently Amended) A non-transitory computer readable medium having a first data field area for storing copy protection information, comprising:

a data area for storing main data; and

a lead-in area for storing copy protection indicating information indicating if the computer readable medium contains the copy protection information in the first data field area or if the computer readable medium does not contain the copy protection information in the first data field area,

~~the copy protection indicating information and the copy protection information being recorded in a wobbled pattern by a bi-phased modulation method,~~

the copy protection information being encryption/decryption key information required for use in encrypting/decrypting the main data,

the copy protection indicating information being included within a control information unit including at least medium size information, medium structure information, and data zone allocation information,

the control information unit being repeatedly recorded in a second data field area in the lead-in area of the computer readable medium,

the copy protection indicating information and the copy protection information being recorded in a wobbled pattern by a bi-phased modulation method,

the first data field area being separated from the second data field area, and

the copy protection information being present depending on the indication of the copy protection indicating information.

2. (Cancelled)

3. (Previously Presented) The computer readable medium according to claim 1, wherein the copy protection indicating information signifies to reproduce the main data directly without utilizing the copy protection information if the copy protection indicating information indicates the computer readable medium does not contain copy protection information.

4. (Previously Presented) The computer readable medium according to claim 1, wherein the copy protection indicating information signifies to reproduce the main data based on the copy protection information if the copy protection indicating information indicates the computer readable medium contains copy protection information.

5 - 6. (Cancelled)

7. (Currently Amended) A method of forming an area of a recording medium that includes a first data field area for storing copy protection information, comprising:

forming a data area for strong main data; and

forming a portion of a lead-in area storing copy protection indicating information indicating if the recording medium contains the copy protection information in the first data field area or if the recording medium does not contain the copy protection information in the first data field area,

~~the copy protection indicating information and the copy protection information being recorded in a wobbled pattern by a bi-phased modulation method,~~

the copy protection information being encryption/decryption key information required for use in encrypting/decrypting the main data,

the copy protection indicating information being included within a control information unit including at least medium size information, medium structure information, and data zone allocation information,

the control information unit being repeatedly recorded in a second data field area in the lead-in area of the recording medium,

the copy protection indicating information and the copy protection information being recorded in a wobbled pattern by a bi-phased modulation method,

the first data field area being separated from the second data field area, and

the copy protection information being present depending on the indication of the copy protection indicating information.

8 – 12. (Cancelled)

13. (Currently Amended) A method of reproducing main data, the method comprising:

utilizing copy protection indicating information indicating if a recording medium contains the copy protection information in a first data field area or if the recording medium does not contain the copy protection information in the first data field area, ~~the copy protection indicating information and the copy protection information being recorded in a wobbled pattern by a bi-phased modulation—method,~~ the copy protection information being encryption/decryption key information required for use in encrypting/decrypting the main data,

the copy protection indicating information being included within a control information unit including at least medium size information, medium structure information, and data zone allocation information,

the control information unit being repeatedly recorded in a second data field area in a lead-in area of the recording medium,

the copy protection indicating information and the copy protection information being recorded in a wobbled pattern by a bi-phased modulation method,

the first data field area being separated from the second data field area, and

the copy protection information being present depending on the indication of the copy protection indicating information.

14. (Previously Presented) The method according to claim 13, further comprising reproducing the main data utilizing the copy protection information if the recording medium contains copy protection information for use in encrypting/decrypting the main data, or reproducing the main data directly without utilizing the copy protection information, if the recording medium does not contain copy protection information for use in encrypting/decrypting the main data.

15. (Previously Presented) The method according to claim 14, wherein the reproducing includes detecting bi-phased modulated data and detecting the copy protection information using the bi-phased modulated data if the recording medium contains copy protection information for use in encrypting/decrypting the main data based on the copy protection indicating

information.

16. (Previously Presented) The method according to claim 14, wherein the reproducing includes (i) checking whether the copy protection indicating information is detected, (ii) reproducing the main data directly if the copy

protection indicating information is not detected, and (iii) reproducing the main data utilizing the copy protection information if the copy protection indicating information is detected.

17-18. (Cancelled)

19. (Currently Amended) A method for playing main data of a recording medium, the method comprising:

detecting copy protection indicating information indicating if the recording medium contains the copy protection information in a first data field area or if the recording medium does not contain the copy protection information in the first data field area, ~~the copy protection indicating information and the copy protection information being recorded in a wobbled pattern by a bi-phased modulation method,~~ the copy protection information being encryption/decryption key information required for use in encrypting/decrypting the main data,

the copy protection indicating information being included within a control information unit including at least medium size information, medium structure information, and data zone allocation information,

the control information unit being repeatedly recorded in a second data field area in the lead-in area of the recording medium,

the copy protection indicating information and the copy protection information being recorded in a wobbled pattern by a bi-phased modulation method,

the first data field area being separated from the second data field area, and

the copy protection information being present depending on the indication of the copy protection indicating information; and

playing the main data utilizing the copy protection information if the recording medium contains copy protection information for use in encrypting/decrypting the main data, or playing the main data directly without utilizing the copy protection information, if the recording medium does not contain copy protection information for use in decrypting the main data, based on the copy protection indicating information.

20. (Previously Presented) The method according to claim 19, wherein the recording medium does not contain copy protection information for use in encrypting/decrypting the main data if the copy protection indicating information indicates the recording medium does not contain copy protection

information.

21. (Previously Presented) The method according to claim 19, wherein the recording medium does not contain copy protection information for use in encrypting/decrypting the main data if the copy protection indicating information indicates the recording medium contains copy protection information, but a value of the copy protection information indicates that copy protection information is not present.

22. (Previously Presented) The method according to claim 19, wherein the recording medium contains copy protection information for use in encrypting/decrypting the main data when the copy protection

indicating information indicates the recording medium contains copy protection information and a value of the copy protection information indicates that copy protection information is present.

23. (Previously Presented) The method according to claim 22, wherein said playing includes decrypting the main data utilizing the copy protection information.

24. (Currently Amended) A method of recording main data on a recording medium, the method comprising:

utilizing copy protection indicating information to indicate if the recording medium contains copy protection information in a first data field

area or if the recording medium does not contain the copy protection information in the first data field area, ~~the copy protection indicating information and the copy protection information being recorded in a wobbled pattern by a bi-phased modulation method~~, the copy protection information being encryption/decryption key information required for use in encrypting/decrypting the main data,

the copy protection indicating information being included within a control information unit including at least medium size information, medium structure information, and data zone allocation information,

the control information unit being repeatedly recorded in a second data field area in a lead-in area of the recording medium,

the copy protection indicating information and the copy protection information being recorded in a wobbled pattern by a bi-phased modulation method,

the first data field area being separated from the second data field area, and

the copy protection information being present depending on the indication of the copy protection indicating information.

25. (Previously Presented) The method according to claim 24, wherein the main data may be recorded utilizing the copy protection information if the recording medium contains copy protection information for use in encrypting/decrypting the data, or the main data may be recorded directly

without utilizing the copy protection information, if the recording medium does not contain copy protection information for use in encrypting/decrypting the main data.

26. (Previously Presented) The method according to claim 25, wherein the recording medium does not contain copy protection information for use in encrypting/decrypting the main data if the copy protection indicating information indicates the recording medium does not contain copy protection information, wherein the recording records the main data without encryption.

27. (Previously Presented) The method according to claim 25, wherein the recording medium does not contain copy protection information for use in encrypting/decrypting the main data if the copy protection indicating information indicates the recording medium contains copy protection information, but a value of the copy protection information indicates that copy protection information is not present, wherein the recording records the main data without encryption.

28. (Previously Presented) The method according to claim 25, wherein the recording medium contains copy protection information for use in encrypting/decrypting the main data when the copy protection indicating information indicates the recording medium contains copy protection information and a value of the copy protection information indicates that copy

protection information is present, wherein the recording records the main data encrypted utilizing the copy protection information.

29. (Previously Presented) The method according to claim 28, wherein encrypting the main data utilizing the copy protection information precedes recording of the data.

30. (Currently Amended) An apparatus for reproducing main data from a recording medium, said apparatus being configured to utilize copy protection indicating information to determine if the recording medium contains the copy protection information in a first data field area or if the recording medium does not contain the copy protection information in the first data field area, said apparatus being configured to reproduce the main data based on the copy protection indicating information and the copy protection information, ~~the copy protection indicating information and the copy protection information being recorded in a wobbled pattern by a bi-phased modulation method,~~ the copy protection information being encryption/decryption key information required for use in encrypting/decrypting the main data,

the copy protection indicating information being included within a control information unit including at least medium size information, medium structure information, and data zone allocation information,

the control information unit being repeatedly recorded in a second data field area in a lead-in area of the recording medium,

the copy protection indicating information and the copy protection information being recorded in a wobbled pattern by a bi-phased modulation method,

the first data field area being separated from the second data field area, and

the copy protection information being present depending on the indication of the copy protection indicating information.

31. (Previously Presented) The apparatus according to claim 30, wherein said apparatus is configured to reproduce the main data utilizing the copy protection information if the recording medium contains copy protection information for use in encrypting/decrypting the main data, or is configured to reproduce the data directly without utilizing the copy protection information, if the recording medium does not contain copy protection information for use in decrypting the main data.

32. (Previously Presented) The apparatus according to claim 31, wherein said apparatus is configured to reproduce the main data directly if the copy protection indicating information indicates the recording medium does not contain copy protection information.

33. (Previously Presented) The apparatus according to claim 31, wherein said apparatus is configured to reproduce the main data directly if the

copy protection indicating information indicates the recording medium

contains copy protection information, but a value of the copy protection information indicates that copy protection information is not present.

34. (Previously Presented) The apparatus according to claim 31, wherein said apparatus is configured to reproduce the main data with the copy protection information when the copy protection indicating information indicates the recording medium contains copy protection information and a value of the copy protection information indicates that copy protection information is present.

35. (Previously Presented) The apparatus according to claim 34, wherein said apparatus is configured to decrypt the main data utilizing the copy protection information.

36. (Currently Amended) An apparatus for reproducing main data from a recording medium, comprising:

a detector configured to detect signals recorded on the recording medium, the signal including the copy protection indicating information to determine if the recording medium contains the copy protection information in a first data field area or if the recording medium does not contain the copy protection information in the first data field area, ~~the copy protection indicating~~

~~information and the copy protection information being recorded in a wobbled pattern by a bi-phased modulation method,~~ the copy protection information being encryption/decryption key information required for use in encrypting/decrypting the main data,

the copy protection indicating information being included within a control information unit including at least medium size information, medium structure information, and data zone allocation information,

the control information unit being repeatedly recorded in a second data field area in a lead-in area of the recording medium,

the copy protection indicating information and the copy protection information being recorded in a wobbled pattern by a bi-phased modulation method,

the first data field area being separated from the second data field area, and

the copy protection information being present depending on the indication of the copy protection indicating information; and

a signal processor configured to process the main data utilizing the copy protection information if the recording medium contains copy protection information for use in encrypting/decrypting the main data, or is configured to process the main data directly without utilizing the copy protection information, if the recording medium does not contain copy protection information for use in decrypting the main data based on the copy protection indicating information.

37. (Previously Presented) The apparatus according to claim 36, wherein said signal processor is configured to process the main data directly if the copy protection indicating information indicates the recording medium does not contain copy protection information.

38. (Previously Presented) The apparatus according to claim 36, wherein said signal processor is configured to process the main data directly if the copy protection indicating information indicates the recording

medium contains copy protection information, but a value of the copy protection information indicates that copy protection information is not present.

39. (Previously Presented) The apparatus according to claim 36, wherein said signal processor is configured to process the main data utilizing the copy protection information when the copy protection indicating information indicates the recording medium contains copy protection information and a value of the copy protection information indicates that copy protection information is present.

40. (Previously Presented) The apparatus according to claim 39, wherein said signal processor is configured to decrypt the main data utilizing the copy protection information.

41 – 48. (Cancelled)

49. (Previously Presented) The recording medium of claim 1, wherein each control information unit of the repeated control information units stores identical information as each other control information unit.

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